

1.2 4DDN Release Notes

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1. Introduction

The 4DDN™ option connects you to the DEC world by allowing IRIS-4D™ Series workstations and servers to act as Phase IV DECnet™ compatible end nodes. An IRIS-4D Series workstation with 4DDN can communicate with any DECnet-compatible end node, including other 4DDN nodes and VAX/VMS™ nodes. 4DDN provides full compatibility with the Digital Network Architecture (DNA), and works with the standard IRIS-4D Ethernet™ interface.

Using 4DDN on an IRIS-4D Series workstation gives you complete DECnet access. You can transfer files, obtain directories, exchange data, and log in to other DECnet nodes. 4DDN also furnishes network management functions.

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This document contains the following chapters:

1. Introduction
2. Configuration Information
3. Bug Fixes
4. Known Problems and Workarounds
5. Documentation Errors

1.1 Release Identification Information

Following is the release identification information for 1.2 4DDN software:

Software Option Product	4DDN
Version	1.2
Product Code	C4-4DDN-1.2 (IRIS-4D Series and IRIS POWER Series™) C5-4DDN-1.2 (Personal IRIS™)
System Software Requirements	4D1-3.3

1.2 Product Option Subsystems and Disk Usage

This section lists the subsystems (and their sizes) on your product option tape.

Those marked "default" are the default subsystems. If you are installing this option for the first time, the default subsystems are installed when you choose the "default" or "automatic" menu items during the installation procedure.

If you are updating from an older version of software, and you select "default" or "automatic", the system installs only the default subsystems that already are installed.

Subsystem	IRIS-4D Series, IRIS POWER Series (512 byte blocks)	Personal IRIS (512 byte blocks)
<i>4DDN.sw.4DDN</i> (default)	3363	3363
<i>4DDN.sw.G0libraries</i>	618	618
<i>4DDN.man.relnotes</i> (default)	26	26

1.3 Software Installation

As of system software release 4D1-3.2, software product option tapes no longer contain the software installation tools. Therefore, these release notes do not document the installation procedure. The installation software, as well as the installation instructions, can be found with the standard products you received from Silicon Graphics, Inc.

The following table shows you where to look for the installation software and documentation.

	Software	Document
Personal IRIS	Execution-only Environment (1)	<i>3.3 Standard System Release and Installation Notes</i>
Personal IRIS	Development Environment	<i>4D1-3.3 Development Release and Installation Notes or IRIS-4D System Administrator's Guide</i>
All other IRIS-4D Series workstations and servers	Execution-only Environment (1)	<i>4D1-3.3 Development Release and Installation Notes or IRIS-4D System Administrator's Guide</i>

1.4 On-Line Release Notes

When you install the on-line documentation for a product, you can view the release notes on your screen as you would an on-line manual page.

The command:

relnotes

displays a list of products that have on-line release notes. The *relnotes* command accepts the following arguments:

- h describes how to use *relnotes*
- <product> displays the table of contents for a product's on-line release notes
- <product> <chapter> displays a specific chapter of a product's on-line release notes
- t <product> <chapter> prints a specific chapter of a product's on-line release notes

To page through the chapter, press <space> and to quit, press or <ctrl-c>. See *relnotes(1)* for more information.

1.5 Product Support

Silicon Graphics, Inc., provides a comprehensive product support maintenance program for IRIS-4D Series products. For further information, please contact your service organization.



2. Configuration Information

To use the 1.2 version of the 4DDN option, make sure your system meets these requirements:

- Your system must run at least 4D1-3.3 system software. Use the command `/bin/uname -r` to find out which version of the software you are running. `/bin/uname -r` prints a line like this:

```
4D1-3.1
```

or

```
4D1-3.2
```

In the first case, you need to upgrade the system software to be able to use 4DDN. In the second case, the system software supports the 4DDN option.

- The Personal IRIS and POWER Series have integral Ethernet controllers that support 4DDN required features.
- On IRIS-4D Series workstations that use the CMC ENP-10 Ethernet controller, such as the IRIS™ 4D/50 through 4D/80 models, the controller firmware might need to be upgraded to the version (#4) that supports 4DDN. Use the `/etc/hinv` command to determine the firmware version. `/etc/hinv` prints a line like this:

```
CMC ENP-10 Ethernet controller 0, firmware version 0 (CMC)
```

or

```
CMC ENP-10 Ethernet controller 0, firmware version 4 (SGI)
```

In the first case, the firmware needs to be upgraded, whereas the second case shows a controller with the proper firmware version.

A pair of EPROMs is included in the 4DDN shipping package for IRIS 4D/50 through 4D/80 models. If you find that you do not have the proper firmware on your CMC board, contact your Service Representative to have the EPROMs installed. The EPROMs are located at U3 (low byte) and U4 (high byte) on the CMC ENP-10 board. Pay special attention to the polarity of the chips when the EPROM is installed.

- On Ethernets that use the IEEE 802.3 or Ethernet v.2 specification, the CMC Ethernet board needs to be changed. The board is shipped using the Ethernet v.1 specification. Your Service Representative can consult Field Information Bulletin #26 for information on converting to the v.2 specification.

3. Bug Fixes

This chapter lists the bugs that have been fixed since the last version (1.1) of 4DDN.

- **sethostd hangs on type aheads**

An incoming virtual terminal session via DECnet to an IRIS no longer hangs when the remote user does type-ahead. From an IRIS or a VAX, a user can establish connection to an IRIS via "set host" and do type-ahead. (Fixed in 4D-3.2.1)

- **3.1G/3.2 dncp fails to copy some ascii files**

There was an occasional "bad data format" problem when copying ascii files. This bug was introduced in 3.1 rev G and carried over to 3.2. An erroneous check for data exceeding the maximum record size in the default mode, non-verbatim, has been corrected. (Fixed in 4D-3.2.1)

- **Designated router address improperly set on outgoing packet**

When a packet is sent through a designated DECnet router, the Ethernet destination address of the packet should contain the address of the router. The destination address was not correctly set when one of two conditions existed:

1. the router and destination nodes have different DECnet area numbers
2. either router or destination node number is greater than or equal to 512

Now packets going through a designated router has its destination address properly set to the router's Ethernet address.

- **No error message on invalid NCP SET NODE NAME command**
The following NCP command failed because the name given was already assigned to another node, but no error message was generated:

```
NCP>set node <local exec addr> name <name already in use>
```

Now this error message is displayed when the command fails:

```
%NCP-I-NMLRSP - Invalid parameter value
```

4. Known Problems and Workarounds

This chapter lists the problems and workarounds in the present version (3.2) of the 4DDN option product:

- For VT100 emulation, the wraparound feature in EDT is faulty.
Workaround: Set the shell window size to 24 x 81. Invoke the *set term/ansi* command after you establish the connection.

5. Documentation Errors

This chapter documents errors in the *4DDN Network Manager's Guide*.

- At the bottom of page 2-11, replace the following text:

```
decnet:EHZFcYdsXgq3c:998:998:DECnet guest  
acct:/usr/tmp:/bin/login
```

The user-ID chosen for the accounts is the same as the guest account.
The password is DECNET.

with:

```
decnet::998:998:DECnet guest acct:/usr/tmp:/bin/login
```

Type:

```
/etc/passwd decnet
```

You are prompted for the password. The user-ID chosen for the accounts is the same as the guest account. The password is DECNET. Type:

```
DECNET
```

You are then asked to confirm your password. Type **DECNET** again.

Note: Be sure you type the password in uppercase letters.

- At the bottom of page 6-1, the following text should replace the second sentence of the LENGTH parameter description (SCR 7051):

This parameter must be an integer in the 1–65535 range, but cannot exceed the maximum segment buffer size. To find the segment buffer size, type **SHOW EXEC CHAR** at the **NCP>** prompt.